

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time: January 13, 2005

Site Contact(s): Dyan Foss
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Agency: CDPHE

Purpose of Contact: Disposition of Area 5 Survey unit 13

Discussion

In accordance with the 776/777 DOP, Appendix I, the preparation of the facility for demolition is conducted in consultation with the CDPHE and is based on a series of decisions primarily related to maintaining releases to the environment and doses to the workers as low as reasonably achievable (ALARA). This contact record documents the activities that were conducted to prepare Area 5 Survey unit 13 for demolition. Survey unit 13 consisted of rooms 132, 133, 134E and 137B.

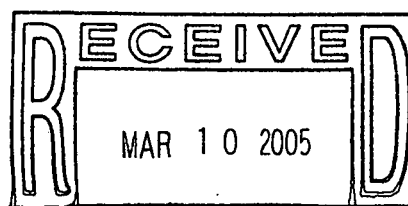
The preparation process for survey unit 13 was initiated October 14, 2004 when a package for in-process radiological surveys was prepared and executed. Once the surveys were complete, the following actions were taken as part of the ALARA-based decontamination effort:

- Concrete shaving was performed on floor surfaces; manual chipping was used to remove hot spots.
- Portions of the floor were removed.
- An area on the ceiling was remediated.
- Steel plates were removed to allow access to the sheep dips
- Walls were decontaminated or removed as necessary

The area was resurveyed in accordance with the Radiological Pre-Demolition Survey Plan for Buildings 776/777. The surveys were provided to the CDPHE project representative, and a walk down of the area was conducted.

In addition to the radiological hazards, the non-radiological hazards have also been addressed in survey unit 13. The following summarizes the non-radiological activities:

- Room 134 East provided secondary containment for mixed residue tanks and piping associated with RCRA units 95.006 – 95.014, 776.2, and six vacuum accumulator tanks with no unit numbers. Only the portions of the floor under the tanks and piping were washed and rinsed. The unit was closed by the rinsate method as documented in a contact record with Harlen Ainscough dated 11/15/04.



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- Chemicals and hazardous substances have been removed.
- Survey unit 13 includes rooms 132, 133, and 134E; Room 134E was listed on the historical list of rooms. The historical record indicates that beryllium parts were used inside gloveboxes in this room. The KH baseline characterization of 1999 indicated no removable beryllium contamination in this survey unit. Since the baseline survey, the rooms have been stripped of all equipment. The final beryllium surveys for this area was collected on December 2, 2004. Sixteen (16) samples were collected on horizontal surface from floor to ceiling and below the reporting limit of 0.1 ug/100 cm².
- Polychlorinated biphenyls (PCB) hazards and equipment have been removed.
- Asbestos has been abated.

Since the floor was removed and the exposed soil has radiological contamination, the soil will be treated with an encapsulant, such as soil cement and rubble will be placed over the soil to limit the potential for dispersion during demolition activities. The area will be noted on project maps, and activities in this area will be coordinated with Environmental Restoration personnel.

Based on the survey results and the principles of ALARA, the risks (industrial and radiological) to the workers are greater than the benefit in source term reduction that would be gained through additional decontamination. The state project representative agrees that decontamination inside Survey unit 13 has progressed to the point of reasonably achievable removal and that the subsequent step of encapsulation is appropriate.

In summary, ALARA-based decontamination has been completed, Survey unit 13 will be encapsulated and surveyed for removable contamination, and controls will be applied during demolition. This contact record will be included in the demolition file to ensure the controls and requirements are included in the demolition work packages for this survey unit.

Contact Record Prepared By: Dyan Foss

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